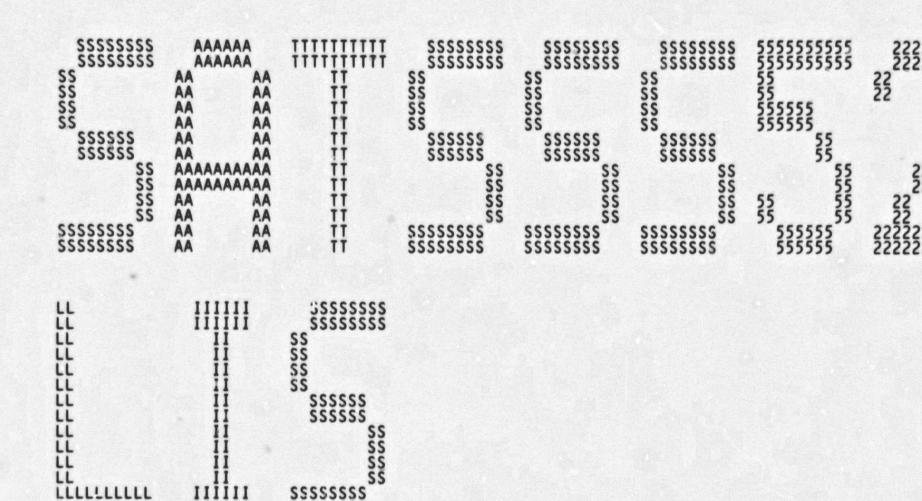
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UUU	UUU	EEEEEEEEEEEE	111111111111111111111111111111111111111	PPTPPPPPPPPP	SSSSSSSSSSSS	YYY	YYY
UUU	UUU	EEE	111	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	III	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	111	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEEEEEEEEE	TTT	PPPPPPPPPPP	SSSSSSSS	YYY	
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		EEEEEEEEEEEEE					
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Market Street,		
SATSSS52 Table of co	ntents	SATS SYSTEM SERVICE TESTS SOLCEFC
0000000000000000000000000000000000000	56 105 130 201 271 364 612 669 723	DECLARATIONS CONDITION TABLES TM SETUP, TM CLEANUP CONDITION SUBROUTINES - SETUP AND CLEANUP FORM CONDS VERIFY VFY CLEANUP BUICD CLUST SUBROUTINE READ_DACEFC SUBROUTINE

16 (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 .TITLE SATSSS52 SATS SYSTEM SERVICE TESTS SOLCEFC (SUCC S.C.)

(1)

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FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)

ABSTRACT:

:*

THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS52 TO TEST SUCCESSFUL OPERATION OF THE \$DLCEFC SYSTEM SERVICE. THE SERVICE IS INVOKED UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY CHECKING FOR AN SS\$ NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS AND EXPECTED FUNCTIONALITY PERFORMED.

ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE, DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.

AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: JAN, 1978

MODIFIED BY:

VERSION 1.5 : 25-MAY-79

01 LDJ 10/11/79 Fixed bug caused by DIB\$K_LENGTH change ACG052.RNO mem

SATS SYSTEM SERVICE TESTS \$DLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 Page DECLARATIONS 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1

.SBTTL DECLARATIONS 555566666666667777 INCLUDE FILES: PRIVILEGE BIT DEFINITIONS
PROCESS HEADER OFFSETS
PROCESS QUOTA CODES
DEVICE INFO BLOCK OFFSETS SPRVDEF SPHDDEF SPQLDEF \$DIBDEF MACROS:

EQUATED SYMBOLS:

OWN STORAGE:

```
SATS SYSTEM SERVICE TESTS $DLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro VO4-00 DECLARATIONS 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1
                                                                                                                                                                                                                                                            (1)
                                        .PSECT RODATA, RD, NOWRT, NOEXE, LONG
TEST_MOD_NAME:: STRING C, <SATSSS52> ; TEST MODULE NAME
TEST_MOD_NAME_D: STRING I, <SATSSS52> ; TEST MODULE NAME DESCRIPTOR
MSG1_INP_CTL: STRING I, < SSDEF! 4ZW: CONDITIONS:>
  00000000
0000
00009
0019
0039
0051
0051
0065
007A
0099
0096
00A3
00AB
00AD
00B2
                                                                                                                                                   ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
                                         MSG3_ERR_CTL:: STRING I, < *SSDEF!4ZW: !AS>
                                                                                                      I. < *SSDEF!4ZW: !AS>
: FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR

I. <SATSSS52_CRE> : CREATED PROCESS NAME

I. <SATSSS52_CLUS> : SUBJECT CLUSTER NAME

I. <SYSTST$RES:SATSUT10.EXE> : IMAGE NAME FOR CREATED PROC

CPULM.0 : INFINITE CPU

BYTLM.512 : BYTE LIMIT FOR BUFFERED I/O

FILLM.2 : OPEN FILE COUNT LIMIT

PGFLQUOTA.10 : PAGING FILE QUOTA

PRCLM.2 : SUBPROCESS QUOTA

TQELM.3 : TIMER QUEUE ENTRY QUOTA

LISTEND : DEFINES END OF LIST
                                          CREPRN:
                                                                                    STRING
                                          CLUS NAME :
                                                                                    STRING
                                                                                    STRING
                                 845
867
889
90
                                          QUOTALIST:
                                                                                    SQUOTA
                                                                                    SQUOTA
                                                                                    SQUOTA
                                                                                    SQUOTA
                                                                                    SQUOTA
                                                                                    SQUOTA
                                                                                    SQUOTA
```

SATS SYSTEM SERVICE TESTS \$DLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 Page 4 DECLARATIONS 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1

00000000 00000000	00000	93	PRIVMASK: MBXCHAN:	RWDATA,R .BLKQ .BLKL	RD, WRT, NOEXE, LONG	:	ADDR OF PRIVILEGE MASK (IN PHD) CHAN NO. FOR MAILBOX FOR CREATED PROCESS
00000074 00000014* 00000088 0000008C	000C 000C 0010 0014 0088	96 97 98 99	MBXCHANINFO: MBXUNIT:	.LONG .ADDRESS .BLKB .BLKL	DIBSK_LENGTH		CHANNEL INFO RETURNED BY GETCHN SAVE AREA FOR MAILBOX UNIT NUMBER
00000110 00000114 00000118	008C 010C 0110 0114	101	MBXBUFF: CLUS_MASK: CLUS_STATE: EFN_REFCT1:	STRING .BLKL .BLKL .BLKL	0,120 1 1	:	MAILBOX BUFFER FOR CREATED PROCESS CLUSTER MASK; USED TO SET SUBJECT CLUSTER STATE OF SUBJECT CLUSTER SAVE AREA FOR EFN WHEN REF CT = 1

```
SATS SYSTEM SERVICE TESTS $DLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 TM_SETUP, TM_CLEANUP 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1
                                                                                   .SBTTL TM_SETUP, TM_CLEANUP
                                                                         FUNCTIONAL DESCRIPTION:
                                                                        TM_SETUP AND TM_CLEANUP ARE CALLED TO PERFORM REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF TEST MODULE EXECUTION.
                                                                         CALLING SEQUENCE:
                                                                                   BSBW TM_SETUP
                                                                                                            BSBW TM_CLEANUP
                                                                         INPUT PARAMETERS:
                                                                                   NONE
                                                                         IMPLICIT INPUTS:
                                                                                   NONE
                                                                         OUTPUT PARAMETERS:
                                                                                   NONE
                                                                         IMPLICIT OUTPUTS:
                                                                                   TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED; ALL PRIVILEGES ACQUIRED.
                                                                         COMPLETION CODES:
                                                                                   EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                                                                         SIDE EFFECTS:
                                                                                   SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.
                                                                166
167
168
169
170
                                                                172
173
174
175
176
177
                                                                      TM_SETUP::
                                             0444440E0
                                                                                                                                          INITIALIZE
                                                                                                                                           .. CONDITION
                                                                                                                                           .... TABLE
                                                                                                                                                         REGISTERS
                                                                                                MOD_MSG_PRINT ; PRINT TEST MODULE BEGIN MSG
TEST_MOD_SUCC.TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
#SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
                                                                178
179
                                                                                   BSBW
00000000°EF
                                                                                   MOVAL
                                                                180
                                                                                   INSV
                                                                                                TO,5$,KRNL : KERNEL MODE TO ACCESS PHD
a#CTL$GL PHD,R9 : GET PROCESS HEADER ADDRESS
PHD$Q PRIVMSK(R9),PRIVMASK : GET PRIV MASK ADDRESS
FROM,5$ : BACK TO USER MODE
ADD,ALL : GET ALL PRIVILEGES
                                                                                   MODE
              59 00000000'9F 69
                                             DO
                                                                                   MOVL
                                                                                   MOVAL
                                                                                   MODE
                                                                                   PRIV
```

SATSSS52 V04-000		SATS SY TM_SETU	STEM SER	VICE TESTS \$DLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 Page 7 EANUP 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1 (1)
00000088°EF	00000020'EF	30 01 30 01 30 01 30 01	10 193 40 194 58 195 59 196 59 197	\$SETPRN S TEST_MOD_NAME_D : SET PROCESS NAME SS_CHECK NORMAL : CHECK STATUS CODE RETURNED FROM SETPRN \$CREMBX_S CHAN=MBXCHAN, LOGNAM=CREPRN, - : GET MAILBOX FOR PROCESS MAXMSG=#120, PROMSK=#0, BUFQUO=#240 SS_CHECK NORMAL : CHECK NORMAL COMPLETION SGETCHN_S CHAN=MBXCHAN, - : GET CHAN INFO (UNIT NUMBER) PRIBUF=MBXCHANINFO SS_CHECK NORMAL : CHECK NORMAL COMPLETION MOVZWL MBXCHANINFO+8+DIB\$W_UNIT, MBXUNIT : SAVE MAILBOX UNIT NUMBER RSB TM_CLEANUP:: \$DELMBX_S MBXCHAN : DELETE TERMINATION MAILBOX BSBW MOD_MSG_PRINT : PRINT TEST MODULE END MSG RSB : RETURN TO MAIN ROUTINE

```
SATS SYSTEM SERVICE TESTS $DLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1
                                  .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
       ; FUNCTIONAL DESCRIPTION:
```

CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES, ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.

CALLING SEQUENCE:

BSBW CONDX BSBW CONDX_CLEANUP WHERE X = 1,2,3,4,5

INPUT PARAMETERS:

CONFLICT = 0

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

OUTPUT PARAMETERS:

CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.

IMPLICIT OUTPUTS:

R2.3.4.5.6 PRESERVED

COMPLETION CODES:

NONE

SIDE EFFECTS:

NONE

RSB

016B 016B 016B 05 0160 05 05 016D

016E

05

016B 016B 016B

016B

016B 016B

016B 016B

016B 016B

016B 016B

016B 016B

016B

016B 016B

016B 016B

0163 016B

016B 016B

016B 016B 016B 016B 016B

016B

016B

016B 016B 016B 016B 016B

COND1:: COND1_CLEANUP:: RSB COND2:: RSB COND2_CLEANUP::

: RETURN TO MAIN ROUTINE : RETURN TO MAIN ROUTINE ; RETURN TO MAIN ROUTINE ; RETURN TO MAIN ROUTINE SATS SYSTEM SERVICE TESTS \$DLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 Page 9 CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1

05	016F 016F	258 COND3:: 259 RSB 260 COND3_CLEANUP::	; RETURN TO MAIN POUTINE
05	0170	260 COND3_CLEANUP:: 261 RSB 262 COND4::	; RETURN TO MAIN ROUTINE
05	0171		; RETURN TO MAIN ROUTINE
05	0172	263 RSB 264 COND4_CLEANUP:: 265 RSB 266 COND5::	; RETURN TO MAIN ROUTINE
05	0173	267 RSB 268 COND5_CLEANUP::	; RETURN TO MAIN ROUTINE
05	0174	269 RSB	; RETURN TO MAIN ROUTINE

```
SATSSS52
V04-000
```

FE69'

OOBF

EF 00000118'EF 00000147'EF42 00000000'EF 00

00000000'EF

00

```
SATS SYSTEM SERVICE TESTS $DLCEFC (SUCC 16-SEP-1984 00:57:11 5-SEP-1984 04:32:09
                                                                                                        VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS52.MAR;1
                                                                                                                                                                 10
                                        .SBTTL FORM_CONDS
                             FUNCTIONAL DESCRIPTION:
                                                     FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
                               THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                              CALLING SEQUENCE:
                                        BSBW FORM_CONDS
                             INPUT PARAMETERS:
                                        NONE
                              IMPLICIT INPUTS:
                                       R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX_T - TITLE TEXT FOR CONDX TABLE

CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE

CONDX_C - CONTEXT OF THE CONDX TABLE

CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
                              OUTPUT PARAMETERS:
                                        NONE
                             IMPLICIT OUTPUTS:
                                        NONE
                             COMPLETION CODES:
                                        NONE
                    307
308
309
310
                             SIDE EFFECTS:
                                        NONE
                          FORM_CONDS::
                                        $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
        0194
0194
0197
019A
                                                                                                FORMAT CONDITIONS HEADER MSG
                                                     OUTPUT_MSG
#COND1_C,#NULL
 30
91
                    319
321
322
323
323
324
325
327
                                        BSBW
                                                                                                  .. AND PRINT IT
                                                                                                IS CONDITION 1 NULL ?
                                        CMPB
  12
                                                     10$
                                                                                                NO -- CONTINUE
                                        BNEQU
                                                     FORM_CONDSX
                                                                                                YES -- SUBROUTINE IS FINISHED
        019C
                                        BRW
        019F
                          105:
                                       MOVAL COND1_T,MSG_A

MOVL COND1_TAB[RZ],MSG_B

MOVB #CONDT_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO

MOVB #CONDT_C,MSG_CTXT

SAVE CONDITION 1 CONTEXT FOR FAO

MOV_VAL COND1_C,CONDT_E[R2],MSG_DATA1; GIVE COND 1 DATA VALUE TO FAO
 DE
D0
90
        019F
        01AA
        01B6
        01BD
```

```
SATS SYSTEM SERVICE TESTS SDLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 FORM_CONDS 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1
SATSSS52
V04-000
                                                                                                                                                                             WRITE_MSG2
#CONDZ_C,#NULL
20$
                                                                                          30
91
12
31
                                                                                                                                                                                                                                                : FORMAT AND WRITE CONDITION 1 MSG
: IS CONDITION 2 NULL ?
: NO -- CONTINUE
                                                                       FE40"
                                                                                                                                                         BSBW
                                                                            00
                                                               14
                                                                                                                                                         CMPB
                                                                                                                                                         BNEQU
                                                                       0096
                                                                                                                                                                               FORM_CONDSX
                                                                                                                                                         BRW
                                                                                                                                                                                                                                                     YES -- SUBROUTINE IS FINISHED
                                                                                                                                   20$:
                                                                                                                                                                             COND2_T,MSG_A
COND2_TABER3],MSG_B

; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO

#COND2_C,MSG_CTXT
; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO

COND2_C,COND2_EER3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO

WRITE_MSG2

#COND3_C,#NULL
; IS CONDITION 3 NULL ?
                                      EF 0000016B'EF
00000198'EF43
00000000'EF 00
             00000000'EF
                                                                                                                                                         MOVAL
       00000000'EF
                                                                                                                                                         MOVL
                                                                                                     01DF
                                                                                                                                                         MOVB
                                                                                                                                                         MOV VAL
                                                                                          30
91
12
31
                                                                       FE17
                                                                           14
                                                                                                                                                         CMPB
                                                                                                                                                         BNEQU
                                                                                                                                                                                                                                                     NO -- CONTINUE
                                                                       006D
                                                                                                                                                                                                                                                     YES -- SUBROUTINE IS FINISHED
                                                                                                                                                         BRW
                                                                                                                                                                               FORM_CONDSX
                                                                                                                                                                            COND3_T,MSG_A
COND3_TABER4],MSG_B
#COND3_C,MSG_CTXT
SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
#COND3_C,MSG_CTXT
SAVE CONDITION 3 CURR TEXT ELT FOR FAO
COND3_C,COND3_EER4],MSG_DATA1; GIVE COND 3 DATA VALUE TO FAO
WRITE_MSG2
#COND4_C,MNULL
SCONDITION 4 NULL
FORM_CONDSX
SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
COND4_T,MSG_A
COND4_T,MSG_A
FORMAT AND WRITE_CONDITION 4 TITLE FOR FAO
COND4_C,MSG_CTXT
SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
WRITE_MSG2
#COND4_C,COND4_EER5],MSG_DATA1; GIVE COND 4 DATA VALUE TO FAO
WRITE_MSG2
#COND5_C,MNULL
FORM_CONDSX
SAVE ADDRESS OF CONDITION 4 MSG
FORM_CONDSX
SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
COND5_T,MSG_A
COND5_T,MSG_A
SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
#COND5_C,MSG_CTXT
SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
#COND5_C,MSG_CTXT
SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
#COND5_C,MSG_CTXT
SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
#COND5_C,MSG_CTXT
SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
#COND5_C,MSG_CTXT
SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
#COND5_C,MSG_CTXT
SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
#COND5_C,MSG_CTXT
SAVE CONDITION 5 CONTEXT FOR FAO
                                                                                                                                   30$:
                                     00000217'EF
00000217'EF44
0000000'EF 14
             00000000'EF
                                                                                         DE
DO
90
                                                                                                                                                         MOVAL
       00000000'EF
                                                                                                                                                         MOVL
                                                                                                                                                         MOVB
                                                                                                                                                         MOV VAL
                                                                                          30
91
13
                                                                      FDEE'
                                                                                                                                                         CMPB
                                                                                                                                                         BEQLU
              00000000 EF
                                                    00000218'EF
                                                                                         DE
DO
90
                                                                                                                                                         MOVAL
                                             00000218'EF45
        00000000'EF
                                                                                                                                                         MOVL
                                      00000000 EF
                                                                                                                                                         MOVB
                                                                                                                                                        MOV VAL
                                                                                          30
91
13
                                                                      FDC8
                                                                                                                                                         CMPB
                                                                                                    023B
023D
0248
0254
                                                                                                                                                         BEQLU
             00000000 EF
                                                   00000219'EF
                                                                                          DE
                                                                                                                                                         MOVAL
                                           00000219'EF46
       00000000'EF
                                                                                                                                                         MOVL
                                                                                                                                                        MOVE #CONDS_C.MSG_CTXT ; SAVE CONDITION 5 CONTEXT FOR FAO MOV VAL CONDS_C.CONDS_EER6],MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO BSB0 WRITE_MSG2 ; FORMAT AND WRITE CONDITION 5 MSG
                                                                                                                        358
359
                                                                                          90
                                      00000000'EF
                                                                                                     025B
                                                                                                     025B
025E
                                                                      FDA2
                                                                                          30
                                                                                                                         360
                                                                                                                        361
362
                                                                                                                                  FORM_CONDSX:
                                                                                          05
                                                                                                                                                         RSB
                                                                                                                                                                                                                                                : RETURN TO CALLER
```

SAT

.SBTTL VERIFY

FUNCTIONAL DESCRIPTION:

VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE (\$DLCEFC). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN ERR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY, THROUGH THE SS CHECK MACRO); ERR EXIT SETS EFLAG TO NON-ZERO, PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER. WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED, AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.

CALLING SEQUENCE:

BSBW VERIFY

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2.3.4.5.6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
FOR COND TABLES 1.2.3.4.5, RESPECTIVELY.

FOR X = 1.2.3.4.5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM FOR CONDX E.

OUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS, IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED ERRORS.

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

```
SATS SYSTEM SERVICE TESTS $DLCEFC (SUCC 16-SEP-1984 00:57:11 VERIFY 5-SEP-1984 04:32:09
SATSSS52
V04-000
                                                                                                                               VAX/VMS Macro V04-00
LUETPSY.SRCJSATSSS52.MAR;1
                                                                                                                                                                             13
                                                                VERIFY::
                         00000000'EF
                                                                                      CFLAG
                                                                           TSTB
                                                                                                                      : SHOULD CONDITIONS BE PRINTED ?
                                                                           BEQL
                                                                                                                      : NO -- CONTINUE
                                   FFOB
                                                                           BSBW
                                                                                      FORM_CONDS
                                                                                                                        YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
                                                                5$:
                                                                    CREATE A CLUSTER AND GET IT BUILT AT LEAST ONCE, THEN DELETE
                                                                       IT WITH A DACEFC.
                                                                           $ASCEFC_S EFN=#64, NAME=CLUS_NAME ; CREATE A NEW CLUSTER SS_CHECK NORMAL ; CHECK ITS COMPLETION
                                                                           MOVZBL #64,R10
                                            9A
30
95
13
31
                                                                                                                        IDENTIFY EVENT FLAG GROUP TO BUILD_CLUST BUILD THE SUBJECT CLUSTER
                         00000000 EF
                                                                                      BUILD_CLUST
                                                                           BSBW
                                                           438
439
441
442
443
                                                                                                                         IS AN ERROR BEING PROCESSED ?
                                                                           TSTB
                                                                                      EFLAG
                                                                           BEQL
                                                                                      10$
                                                                                                                         NO -- CONTINUE
                                   04A2
                                                                           BRW
                                                                                      VERIFYX
                                                                                                                        YES -- RETURN IMMEDIATELY
                                                                105:
                                                                           $SETEF_S EFN=#95
SS_CHECK WASCLR
$DACEFC_S EFN=#64
SS_CHECK NORMAL
                                                                                                                      : ENSURE CLUSTER HAS AT LEAST ONE FLAG ON ; FLAG 95 SHOULD HAVE BEEN CLEAR PREVIOUSLY ; NOW GET RID OF TEMPORARY CLUSTER
                                                                                                                      : ... CHECK ITS COMPLETION
                                                                    THE FOLLOWING CASE INSTRUCTION AND SUBSEQUENT CODING ISSUES AS MANY ASCEFC'S AS NECESSARY TO ACHIEVE THE
                                                                       SPECIFIED REFERENCE COUNT FOR THIS TEST CASE.
              00000114'EF
                                 40 8F
                                                                           MOVZBL
                                                                                     #64, EFN REFCT1
R3, #0, #4
                                                                                                                        ASSUME EVENT FLAG GROUP 2
ISSU CORRECT AS EFC'S PER COND 2 INDEX REG
                        04
                              00
                                                                           CASEB
                                                                15$:
                                                                                                                         START OF CASE WORD DISPLACEMENTS
                                                                           . WORD
                                                                                                                         REF COUNT 0
                                                                                                                        REF COUNT 1, EVENT FLAG GROUP
                                          0010
                                                                           . WORD
                                                                                      30$-15$
                                                                                                                        REF COUNT 1. EVENT FLAG GROUP 3
                                          005D'
                                                                                      40$-15$
                                                                           . WORD
                                          00B2'
                                                                           . WORD
                                                                                      50$-15$
                                                                                                                         REF COUNT
                                         00B2'
                                                                            WORD
                                                                                                                        REF COUNT 4
                                            31
                                                           459
                                   01A5
                                                                           BRW
                                                                                                                        BRANCH PAST CASE ROUTINES
                                                                20$:
                                                           461
462
463
464
465
466
467
                                                                    REF COUNT O, NO ASCEFC'S TO BE ISSUED
                                   01B7
                                            31
                                                                                                                      : GO ON TO ISSUE SUBJECT DLCEFC
                                                                30$:
                                                                    REF COUNT 1, EVENT FLAG GROUP 2
                                                                           $ASCEFC_S EFN=EFN_REFCT1, -
NAME=CLUS_NAME, -
PERM=CONDT_E[R2]
                                                                                                                      : INCREMENT REF COUNT; EFN SET UP ABOVE
                                                           472
473
474 40$:
476 : RI
477 :
                                                                           SS_CHECK_NORMAL
                                                                                                                      : CHECK FOR NORMAL COMPLETION
                                            31
                                   0155
                                                                                                                      : GO BUILD THE CLUSTER JUST CREATED
                                                                    REF COUNT 1, EVENT FLAG GROUP 3
```

```
SATS SYSTEM SERVICE TESTS $DLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 VERIFY 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1
SATSSS52
V04-000
                                                                                                                                                                                                       14
                                                                                      MOVZBL #96,EFN_REFCT1

$ASCEFC_S EFN=EFN_REFCT1, -

NAME=CLUS_NAME, -

PERM=CONDT_EER2J
                 00000114'EF
                                                  9A
                                                                                                                                          EST EFN FOR E.F. GROUP 3
                                      60 BF
                                                                                                                                        : INCREMENT REF COUNT
                                                                                      SS CHECK NORMAL
                                                                                                                                        : CHECK FOR NORMAL STATUS CODE
                                        0100
                                                   31
                                                                                                                                        ; GO BUILD CLUSTER JUST CREATED
                                                                         50$:
                                                                               REF COUNT 2 OR 4, BOTH EVENT FLAG GROUPS IN THIS PROCESS
                                                                                      $ASCEFC_S EFN=#64, -
NAME=CLUS_NAME, -
PERM=CONDT_E[R2]
                                                                                                                                        ; INCREMENT REF COUNT
                                                                                     SS_CHECK NORMAL
SASCEFC_S EFN=#96, -
NAME=CLUS_NAME, -
PERM=CONDT_E[R2]
                                                                                                                                        ; CHECK FOR NORMAL COMPLETION
                                                                                                                                        ; INCREMENT REF COUNT
                                                                                                                                          CHECK FOR NORMAL COMPLETION
FIFTH COND 2 ELEMENT (REF COUNT 4) ?
NO -- REF COUNT IS 2 -- NO MORE ASCEFC'S
YES -- CREATED PROC ISSUE 2 MORE ASCEFC'S
                                                                                      SS_CHECK NORMAL
                                           53
                                                  D1
12
                                                                                       CMPL
                                   04
                                                                                      BNEQU
                                                                                      $CREPRC_S PRCNAM=CREPRN, IMAGE=IMAGNAM - MBXUNT=MBXUNIT, QUOTA=QUOTALIST
                                                                                      SS_CHECK NORMAL
                                                                                                                                       ; CHECK CREPRC COMPLETION STATUS
; SLEEP UNTIL CREATED PROCESS DOES ASCEFC'S
                                                                                      SHIBER_S
                                                                          55$:
                                                                    505
506
507
508
509
                                                                              END OF CASE ROUTINES
                                                                              AT THIS POINT, AT LEAST ONE ASCEFC HAS BEEN ISSUED; CALL
                                                                                 BUILD_CLUST TO GET THE CREATED CLUSTER BUILT.
                             00000114'EF
                                                                                                  EFN_REFCT1,R10
BUICD_CLUST
                                                                                                                                          ESTABLISH EFN FOR BUILD_CLUST BUILD CLUSTER
                                                  DO 30 95 13 31
                                                                                       MOVL
                                                                                      BSBW
                             00000000 EF
                                                                    512
513
514
515
516
517
518
                                                                                                                                          IS AN ERROR BEING PROCESSED ?
                                                                                      TSTB
                                                                                                  EFLAG
                                                                                                   60$
                                                                                      BEQL
                                                                                                                                          NO -- CONTINUE
                                        0259
                                                                                      BRW
                                                                                                   VERIFYX
                                                                                                                                          YES -- RETURN IMMEDIATELY
                                                                         60$:
                                                                             ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
                                                                                      $DLCEFC_S NAME=CLUS NAME
CMPL RO,#SS$_NORMAL
BEQLU 70$
                                                                                                                                           CLEAR PERMANENT INDICATOR
                                                                                                                                           CODE RECEIVED = CODE EXPECTED ?
                     00000000°8F
                                                                                                                                           YES -- CONTINUE
       00000000'EF 00000000'8F
                                                                                                                                          LOAD UP EXPECTED AND ... RECEIVED VALUES, THEN EXIT
                                                  DO
                                                                                       MOVL
                                                                                                   #SS$_NORMAL,EXPV
                                                   DO
                                                                                      MOVL
                                                                                                  RO, RECV
                                                                                      ERR_EXIT LONG, < INCORRECT STATUS CODE RETURNED FROM DLCEFC>
                                                                          705:
                                                                              TO VERIFY THE SUBJECT DLCEFC, THE CLUSTER'S REFERENCE COUNT WILL BE DROPPED TO 0 (BY ISSUING DACEFC'S) AND THEN AN
                                                                                 ADDITIONAL ASCEFC WILL BE ISSUED TO CREATE A NEW CLUSTER WHICH WILL BE VERIFIED TO BE ALL O'S. BEFORE EACH DACEFC IS ISSUED, A READEF OF THE CLUSTER WILL BE DONE TO ENSURE THAT THE CLUSTER REMAINS EQUAL TO THE CLUSTER MASK; THIS
                                                                                 GUARANTEES THAT THE REFERENCE COUNT WAS CORRECT AND, IN FACT, THAT THE CLUSTER IS NOT DELETED UNTIL THE COUNT
```

SATSSS52 V04-000		STS \$DLCEFC (SUCC 16-SEP-1984 00 5-SEP-1984 00	0:57:11 VAX/VMS Macro V04-00 Page 15 4:32:09 [UETPSY.SRC]SATSSS52.MAR;1 (1)
	0581 535 ; G 0581 536 ; 0581 537 ;	OES TO O.	
	0581 539 : D	FOLLOWING CASE STATEMENT AND SUI ECREMENTS THE REFERENCE COUNT BY	ISSUING THE CORRECT
	0581 542 :	EQUENCE OF DACEFC'S, BASED ON THE OR THIS TEST CASE.	E REFERENCE COOK!
04 00 53	8F 0581 543 0585 544 75\$: 0000' 0585 545	CASEB R3,#0,#4	: ISSU CORRECT DACEFC'S PER COND 2 INDEX REG : CASE INSTRUCTION WORD DISPLACEMENTS
	000D' 0585 545 0010' 0587 546 0010' 0589 547	.WORD 80\$-75\$.WORD 90\$-75\$	REF COUNT 0 REF COUNT 1, EVENT FLAG GROUP 2 REF COUNT 1, EVENT FLAG GROUP 3
	0028' 058B 548 0028' 058D 549	.WORD 80\$-75\$.WORD 90\$-75\$.WORD 90\$-75\$.WORD 100\$-75\$.WORD 100\$-75\$.WORD 100\$-75\$; REF COUNT 2 ; REF COUNT 4
OODB	31 058F 550 0592 551 80\$:	BRW 130\$; BRANCH PAST CASE ROUTINES
	0592 554 :	COUNT O, NO DACEFC NECESSARY	
0008	31 0592 555 0595 556 90\$: 0595 557;	BRW 130\$; GO ON TO CHECK CLUSTER FOR O'S
	0595 558 ; REF	COUNT 1, ISSUE ONE DACEFC	
5A 00000114'EF		MOVL EFN_REFCT1,R10 BSBW READ_DACEFC TSTB EFLAG BEQL 95\$	SET UP CORRECT EFN FOR READ DACEFC SUBRTN CHECK THE CLUSTER AND DISASSOCIATE IS AN ERROR BEING PROCESSED?
00000000 EF 03 01B9	DO 0595 560 30 059C 561 95 059F 562 13 05A5 563 31 05A7 564	BEQL 95\$ BRW VERIFYX	; IS AN ERROR BEING PROCESSED ? ; NO CONTINUE ; YES RETURN IMMEDIATELY
0000	05AA 565 95%.	BRW 130\$	GO ON TO CHECK CLUSTER FOR O'S
	31 05AA 566 05AD 567 100\$: 05AD 568 : 05AD 569 : REF 05AD 570 ; D1 05AD 571	COUNT 2 OR 4, ISSUE 2 OR 4 DACE	erie
04 53	05AD 569; REF 05AD 570; D1 05AD 571		; FIFTH COND 2 ELEMENT (REF COUNT 4) ?
04 53 03 0094	D1 05AD 571 13 05B0 572 31 05B2 573 05B5 574 105\$:	CMPL R3.#4 BEQLU 105\$ BRW 110\$; YES CONTINUE ; NO REF COUNT MUST BE 2
	05F2 577	\$WAKE_S PRCNAM=CREPRN SS_CHECK NORMAL \$QIOW_S CHAN=MBXCHAN, FUNC=#109 P1=MBXBUFF+8, P2=MBXBU	; WAKE PROCESS TO GET DACEFC'S ISSUED ; CHECK FOR NORMAL STATUS CODE \$ READVBLK, -
	061B 579 061B 580	SS_CHECK NORMAL	: AND WAIT FOR IT TO SEND MAIL : CHECK FOR NORMAL STATUS CODE
5A 40 8F	9A 0649 581 110\$:	MOVZBL #64,R10	
00000000°EF	9A 0649 582 30 0640 583 95 0650 584 13 0656 585 31 0658 586	BSBW READ DACEFC TSTB EFLAG BEQL 120\$	SET UP CORRECT EFN FOR READ DACEFC SUBRTN CHECK THE CLUSTER AND DISASSOCIATE IS AN ERROR BEING PROCESSED? NO CONTINUE
0108	31 0658 586 065B 587 120\$:	BRW VERIFYX	; YES RETURN IMMEDIATELY
5A 60 8F 01E4 00000000°EF 03	05C4 576 05F2 577 05F2 578 061B 579 061B 580 0649 581 110\$: 9A 0649 582 30 0640 583 95 0650 584 13 0656 585 31 0658 586 065B 587 120\$: 9A 065B 588 30 065F 589 95 0662 590 13 0668 591	MOVZBL #96,R10 BSBW READ DACEFC TSTB EFLAG BEQL 130\$	SET UP CORRECT EFN FOR READ DACEFC SUBRTN CHECK THE CLUSTER AND DISASSOCIATE IS AN ERROR BEING PHOCESSED? NO CONTINUE

SAT

```
SATS SYSTEM SERVICE TESTS SDLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 VFY_CLEANUP 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1
                                                        .SBTTL VFY_CLEANUP
                                         FUNCTIONAL DESCRIPTION:
                                         VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERREXIT ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING, WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN POSSIBLY DISCOVERING A SECOND ERROR.
                                          CALLING SEQUENCE:
                                                        BSBW VFY_CLEANUP
                                          INPUT PARAMETERS:
                                                        NONE
                                          IMPLICIT INPUTS:
                                                       R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE

ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM

FOR CONDX_E.
                                          OUTPUT PARAMETERS:
                                                        NONE
                                          IMPLICIT OUTPUTS:
                                                        NONE
                                          COMPLETION CODES:
                                                        EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                                          SIDE EFFECTS:
                                                        SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.
                            660
                                      VFY_CLEANUP::
                                                       SDLCEFC S NAME=CLUS_NAME
SS_CHECK NORMAL
RSB
                                                                                                                                   : CLEAR PERM INDICATOR IF PRESENT ...
: ... AND CHECK COMPLETION
: RETURN TO CALLER
```

SAT

17

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SATSSS52
V04-000
```

		SATS	SYSTEM SE	RVICE TE BROUTINE	STS SDLCE	I 1 FC (SUCC 16-SEP-19 5-SEP-19	984 00:57 984 04:32	7:11 VAX/VMS Macro V04-00 2:09 [UETPSY.SRC]SATSSS52.	MAR;1 Page 18
			07A0 67 07A0 67 07A0 67 07A0 67 07A0 67 07A0 67 07A0 67 07A0 67 07A0 68 07A0 69 07A0 70 07A0 7	***************	.SBTTL ********* BUILD_CL THIS SUB	BUILD_CLUST SUBROUTINE UST SUBROUTINE ROUTINE CREATES A ENATING THE LOW-OF N SETS CLUSTER A E G THE PROPER COMB: R2,R3,R4,R5 - (R10 - / CLUS_MASK - L	32-BIT (RDER BYTE EQUAL TO INATION (CONDITION ANY EFN INATION CONGWORD CLUSTER	CLUSTER MASK BY ES OF REGS R2-R5. THE MASK BY OF 32 SETEF/CLREF'S. N TABLE INDEX VALUES IN CLUSTER A CONTAINING THE CREATED R MASK. TO LOOK LIKE CLUS_MASK.	
0000010C'EF 0000010D'EF 0000010E'EF 0000010F'EF	55 54 53 52	90 90 90 90	07A0 699 07A0 699 07A0 700 07A7 70 07AE 700 07B5 70	,	MOVB	R5,CLUS_MASK R4,CLUS_MASK+1 R3,CLUS_MASK+2 R2,CLUS_MASK+3		BUILD CLUSTER MASK	
			07BC 700 07BC 700	THE	FOLLOWING	CODE SETS SUBJECT	CLUSTER	EQUAL TO CLUS_MASK	
58	5A 59	D0 D4	07BC 700 07BC 700 07BF 700	8	MOVL CLRL	R10,R8 R9	;	ESTABLISH FIRST EFN (EVENT INIT OFFSET INTO CLUS_MASK	FLAG NO.)
3A 0000010C'EF	59	EO	07BF 700 07C1 700 07C1 710	20\$:	BBS	R9, CLUS_MASK, 30\$			
68	50	E8	07C9 71 07D2 71 07D5 71	5	\$CLREF_S BLBS SS_CHECK	RO.40\$ NORMAL		ISSUE \$SETEF IF BIT FOR THE STATE OF THE SERVICE SCLEEN IF NORMAL STATUS, PROCESS IN USE SS_CHECK TO TERMINATE	NEXT EVENT FLAG TEST MODULE
2E	50	E8	0803 710 0803 711 0800 711 080F 71 083D 711 083D 711 083F 720 0845 72	5	SSETEF_S BLBS SS_CHECK	RO,40\$	i	SET CURRENT EVENT FLAG IF NORMAL STATUS, PROCESS I USE SS_CHECK TO TERMINATE	NEXT EVENT FLAG TEST MODULE
FF7C 59 01	58 1F	86 90 05	083D 710 083F 720 0845 72	9	INCW ACBB RSB	R8 #31,#1,R9,20\$	1	GET NEXT EFN GO DO NEXT EVENT FLAG RETURN TO CALLER	

```
SATS SYSTEM SERVICE TESTS SOLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 READ_DACEFC SUBROUTINE 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1
SATSSS52
V04-000
                                                                                         .SBTTL READ_DACEFC SUBROUTINE
                                                                                                           ***************************
                                                                                         READ_DACEFC SUBROUTINE
                                                                                         THIS SUBROUTINE COMPARES THE CLUSTER AGAINST THE MASK AND THEN DISASSOCIATES THE EVENT FLAG GROUP SPECIFIED
                                                                                            BY R10 FROM THE CLUSTER.
                                                                                         INPUTS:
                                                                                                     R10
                                                                                                                                ANY EFN IN THE EVENT FLAG GROUP
                                                                                                                                    TO BE DISASSOCIATED.
                                                                                                                                LONGWORD CONTAINING THE IMAGE OF THE SUBJECT CLUSTER.
                                                                                                     CLUS_MASK -
                                                                                         OUTPUTS:
                                                                                                     NONE.
                                                                                         EXITS:
                                                                                                                                MASK AND SYSTEM SERVICES
                                                                                                     NORMAL
                                                                                                                                    FINISH NORMALLY.
                                                                                                     ERROR
                                                                                                                                 ERR_EXIT MACRO EXECUTED IF ABOVE
                                                                                                                                    NORMAL CONDITIONS ARE NOT MET.
                                                                                         VOLATILE REGISTERS, AREAS:
                                                                                                     RO, R1, R8, R9, CLUS_STATE, EXPV, RECV
                                                                           READ_DACEFC:

$READEF_S EFN=R10, STATE=CLUS_STATE; READ CLUSTER

BLBS R0,10$; CONTINUE IF NORMAL COMPLETION

SS_CHECK NORMAL; USE SS_CHECK TO TERMINATE TEST MODULE
                                                                     760
761
762
763
10$:
764
765
                                        2E 50
                                                    E8
                                                                                        CMPL CLUS_STATE, CLUS_MASK ; DOES CLUSTER STILL = MASK ?
BEQLU 20$ ; YES -- ISSUE DACEFC AND GET OUT
MOVL CLUS_MASK, EXPV ; NO -- LOAD EXPECTED AND ...
MOVL CLUS_STATE, RECV ; RECEIVED VALUES, THEN EXIT
ERR_EXIT LONG, <CLUSTER STATE NOT MAINTAINED ACROSS DLCEFC OR DACEFC>
                              00000110'EF
       0000010C'EF
                                                                      766
767
768
769
770
        00000000'EF
                              0000010C'EF
00000110'EF
                                                    DO
                                                                            20$:
                                                                           $DACEFC_S EFN=R10
SS_CHECK NORMAL
READ_DACEFCX:
                                                                                                                                           : DISASSOCIATE (DECR REF CT BY 1)
: CHECK FOR NORMAL COMPLETION
```

RSB

.END

; RETURN TO CALLER

SATSSS52 Symbol table	SATS SYSTEM SERVICE TESTS	\$DLCEFC (SUCC 16-SEP-1984	00:57:11 VAX/VMS Macro V04-00 04:32:09 [UETPSY.SRC]SATSSS52.MAR;	Page 2	20 (1)
\$\$\$\$\$ \$\$\$CHARS \$\$\$CHARS2 \$\$\$CHARS2 \$\$\$CHARS5 \$\$\$CHARS5 \$\$\$COND A \$\$\$STRINGS \$\$\$STRINGS2 \$\$\$T2 BUILD_CLUST BYTE CFLAG CHMRTN CHM_CONT CLUS_MASK CLUS_NAME CLUS_STATE COMP_SC COND1_C COND1_C COND1_C COND1_H COND1_T COND1_T COND1_T COND2_C COND2_CLEANUP COND2_C COND2_CLEANUP COND2_T COND3_T COND3_T COND3_T COND3_T COND3_T COND3_T COND4_C COND4_C COND4_T COND4_T COND4_T COND4_T COND4_T COND4_T COND5_T COND5_C COND5_C COND5_C COND5_C COND5_C COND5_C COND5_T COND5_	= 0000008B3 R 04 = 000000034 = 000000012 = 000000018 = 000000004 = 000000004 = 000000004 = 000000001 = 000000001 = 0000000000000	DIBSW_UNIT EFLAG EFLAG EFN REFCT1 EXPV FAO_DESC FAO_LEN FORM_CONDS FORM_CONDSX IMAGNAM IO\$_READVBLK LONG MBXBUFF MBXCHANINFO MBXUNIT MOD_MSG_CODE MOD_MSG_PRINT MSGT_INP_CTL MSG3_ERR_CTL MSG_A MSG_CTXT NOTARG NULL OUTPUT_MSG PCV PHD\$Q_PRIVMSK PQL\$_FILLM PQL\$_FILLM PQL\$_FILLM PQL\$_FILLM PQL\$_FILLM PQL\$_FILLM PQL\$_PRCUM PQL\$_PRCUM PQL\$_PRCUM PQL\$_PRCUM PQL\$_PRCUM PQL\$_PRCUM PQL\$_FILLM PQL\$_FILLM SYS\$CESS_ERR QUOTALIST READ_DACEFC RECV REST_REGS SAVE_REGS SSS_WASCEF SYS\$CREMBL	= 0000000C		

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SAT
VO
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SATS SYSTEM SERVICE TESTS SOLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 5-SEP-1984 04:32:09 [UETPSY.SRC]SATSSS52.MAR;1
 SATSSS52
                                                                                                                                                                                             21
                                                                                                                                                                                    Page
 Symbol table
 SYSSHIBER
SYSSQIOW
                                                 ******
                                                 *******
                                                                GX
 SYS$READEF
                                                                GX
                                                 *******
 SYS$SETEF
                                                               GX
                                                 *******
 SYS$SETPRN
                                                               GX
 SYS$SETPRV
                                                 *******
                                                               GX
 SYSSWAKE
                                                               GX
 TESTNUM
                                                 *******
TEST_MOD_NAME
TEST_MOD_NAME_D
TEST_MOD_SUCC
TMD_ADDR
TM_CLEANUP
TM_SETUP
VERIFY
                                                 00000000 RG
                                                 00000009 R
                                                 00000159 RG
                                              00000000 RG
00000025F RG
00000763 R
00000764 RG
= 00000002 G
 VERIFYX
WORD CLEANUP
WRITE_MSG2
                                                                       04
                                                                         Psect synopsis
 PSECT name
                                                                             PSECT No.
                                               Allocation
                                                                                            Attributes
 -------
    ABS
                                                00000000
                                                                             00
01
02
03
04
                                                                                     0.)
                                                                                                                                                                   NOWRT NOVEC BYTE
                                                                                             NOPIC
                                                                                                                                  LCL NOSHR NOEXE NORD
 $ABS$
                                                00000000
                                                                                     1.)
                                                                                                                          ABS
                                                                                             NOPIC
                                                                                                        USR
                                                                                                                 CON
                                                                                                                                  LCL NOSHR
                                                                                                                                                             RD
                                               000000BC
0000021A
0000093A
                                                                                     3.)
                                                                                                                                                                     WRT NOVEC LONG
WRT NOVEC LONG
WRT NOVEC BYTE
                                                                                            NOPIC
NOPIC
 RODATA
                                                                                                        USR
                                                                                                                 CON
                                                                                                                                  LCL NOSHR
                                                                                                                                                 NOEXE
                                                                                                                                                             RD
                                                                                                                                                                   NOWRT
 RWDATA
                                                                                                        USR
                                                                                                                 CON
                                                                                                                          REL
                                                                                                                                   LCL NOSHR
                                                                                                                                                 NOEXE
                                                                                                                                                             RD
 SATSSS52
                                                                                             NOPIC
                                                                                                        USR
                                                                                                                 CON
                                                                                                                          REL
                                                                                                                                   LCL NOSHR
                                                                                                                                                             RD
                                                                     Performance indicators
Phase
                                     Page faults
                                                           CPU Time
                                                                                 Elapsed Time
                                                                                00:00:00.31
00:00:02.93
00:00:16.59
00:00:00.63
00:00:03.13
00:00:00.03
                                                           00:00:00.07
 Initialization
                                                           00:00:00.07

00:00:00.68

00:00:08.83

00:00:00.60

00:00:00.39

00:00:00.00

00:00:00.00
 Command processing
                                               140
292
0
158
16
645
 Pass 1
 Symbol table sort
Pass 2
 Symbol table output
Psect synopsis output
 Cross-reference output
 Assembler run totals
```

The working set limit was 1650 pages.
47530 bytes (93 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 357 non-local and 80 local symbols.
774 source lines were read in Pass 1, producing 28 object records in Pass 2.
50 pages of virtual memory were used to define 40 macros.

SA

SATSSS52
VAX-11 Macro Run Statistics

SATS SYSTEM SERVICE TESTS SDLCEFC (SUCC 16-SEP-1984 00:57:11 VAX/VMS Macro V04-00 Page 22 (1)

! Macro library statistics !

Macro library name

_\$255\$DUA28:[SHRLIB]UETP.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries) Macros defined

27

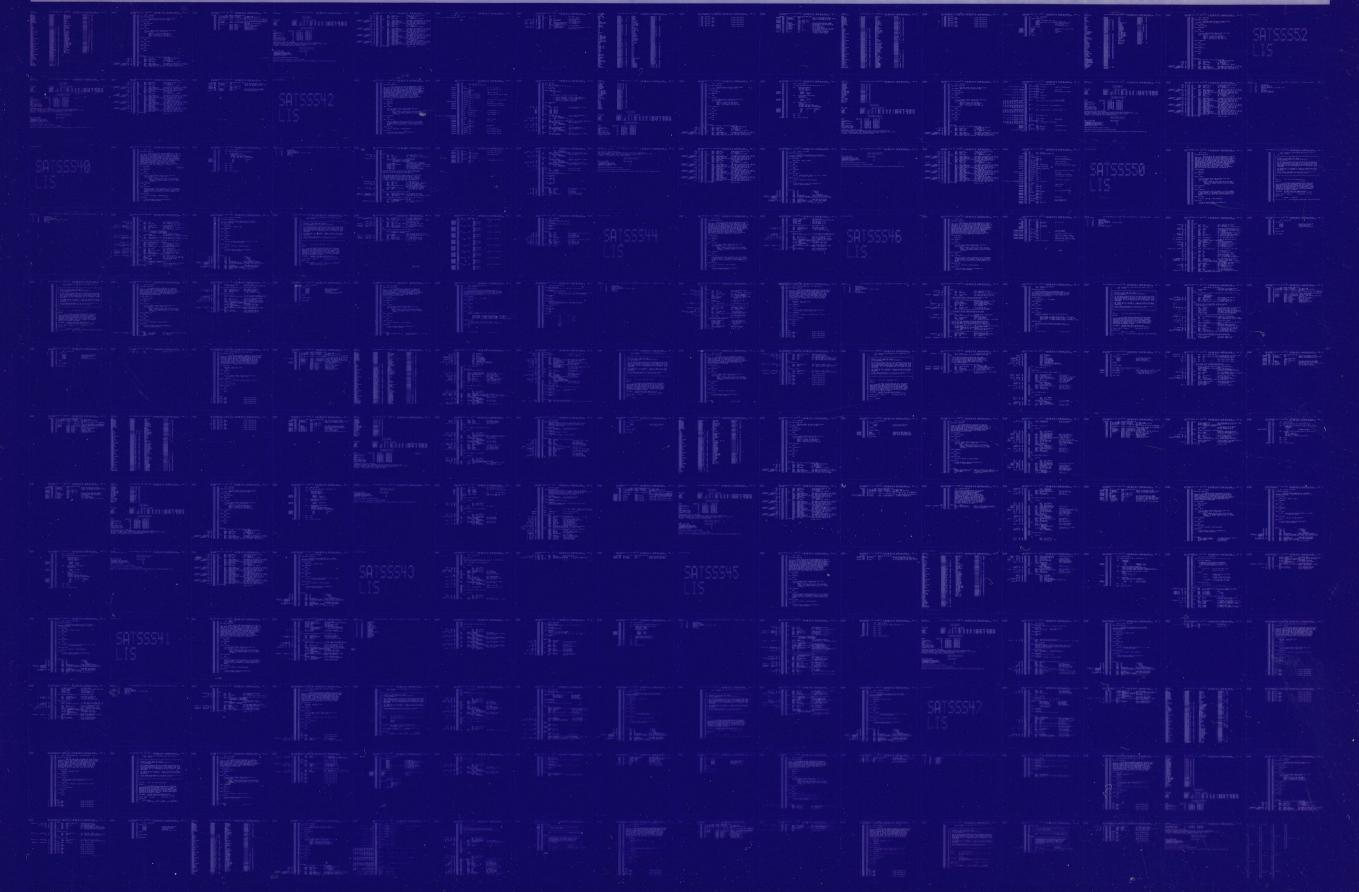
775 GETS were required to define 37 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS52/OBJ=OBJ\$:SATSSS52 MSRC\$:SATSSS52/UPDATE=(ENH\$:SATSSS52)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

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